

Covert Monitoring Antenna

20 – 6000 MHz

Product Code: OMNI-A0199

VERSION: 1.3

SPECIFICATIONS:



Electrical:	
Frequency (band A)	20 – 200 MHz
Frequency (band B)	100 – 700 MHz
Frequency (band C)	500 – 3000 MHz
Frequency (band D)	800 – 6000 MHz
VSWR: band A	< 3.5:1
band B	< 3.0:1
band C	< 2.5:1
band D	< 3.5:1
Nominal input impedance	50 Ω
Connector	4 x N-type female
Feed power handling	Receive only
Gain	See graphs
Polarisation	Vertical
Mechanical:	
Dimensions (l x w x h)	1750 mm x 820 mm x 450 mm
Weight	30 kg
Mounting method	Clamps for vehicle roof luggage rails
Environmental: designed to meet the following specifications	
Wind survival	160 km/h (from front)
Temperature (operational)	- 31 °C to + 71 °C
Shock	40 G for 10 mS
Water ingress rating	IP 54

PRODUCT FEATURES:

- Visually disguised to avoid drawing attention to the vehicle
- Covers a 300:1 frequency range.
- Good VSWR and no elevation pattern break-up across the whole frequency range
- Overlaps between frequency bands for maximum flexibility

APPLICATIONS:

- Wideband frequency spectrum monitoring

PRODUCT DESCRIPTION:

The OMNI-A0199 is a covert, ultra-wideband antenna system designed for wideband frequency spectrum monitoring and is based on the successful OMNI-A0082 antenna. Band A covers 20 to 200 MHz, band B covers 100 to 700 MHz, band C is a high-efficiency wideband 500 to 3000 MHz antenna and band D covers 850 to 6000 MHz. There is space available inside the roof box to mount small receiver systems.

The OMNI-A0199 has an excellent omni-directional radiation pattern which provides 360° performance, and covers a 300:1 frequency range without significant elevation break-up. The low visual profile avoids drawing attention to the vehicle on which it is fitted.

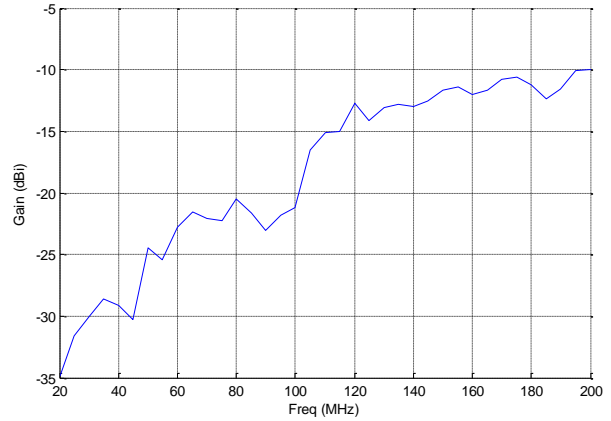
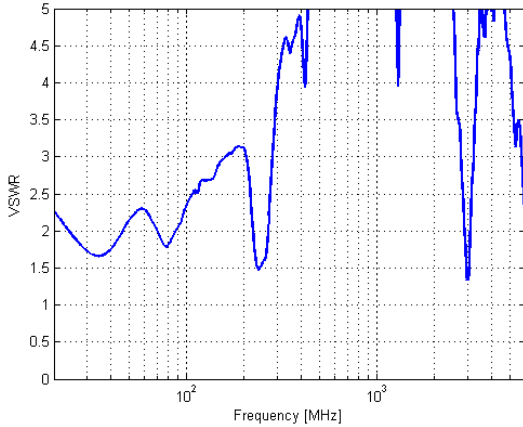
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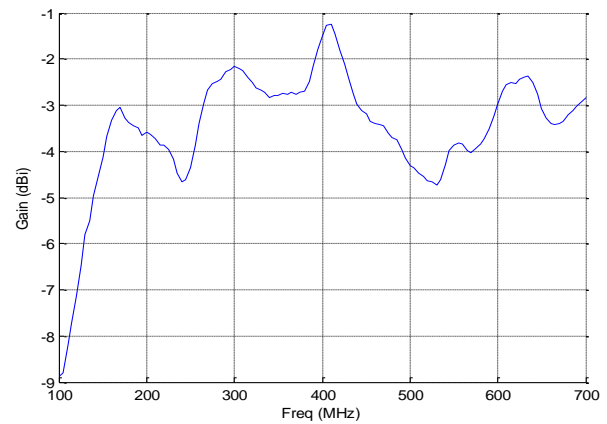
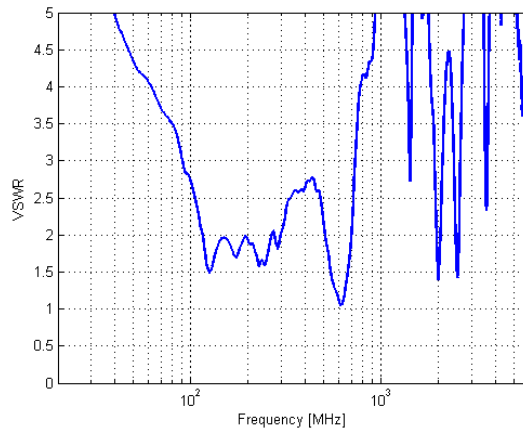
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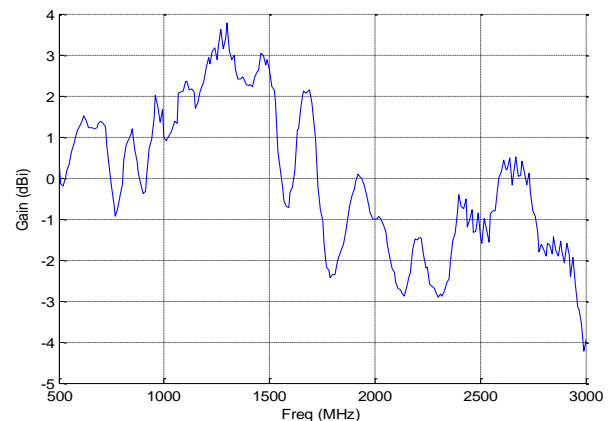
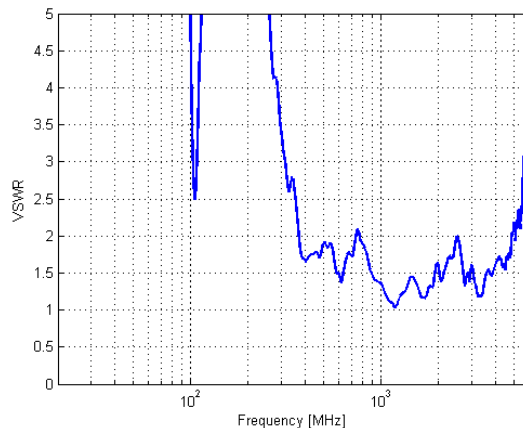
VSWR AND GAIN, BAND A (20 – 200 MHz):



VSWR AND GAIN, BAND B (100 – 700 MHz):



VSWR AND GAIN, BAND C (500 – 3000 MHz):



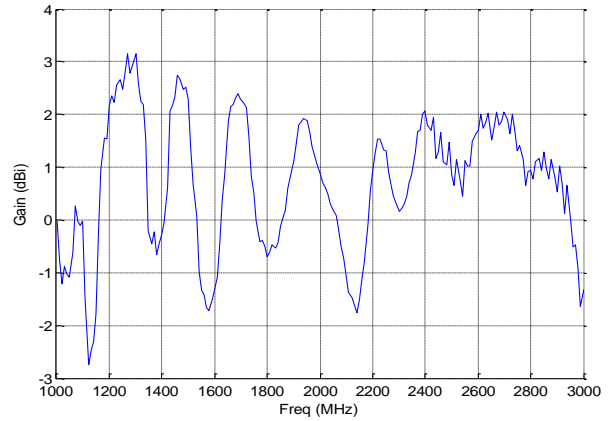
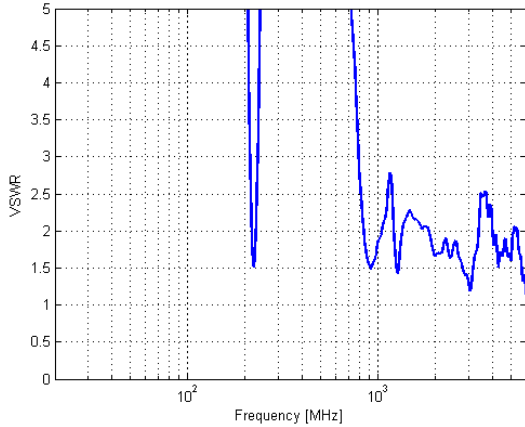
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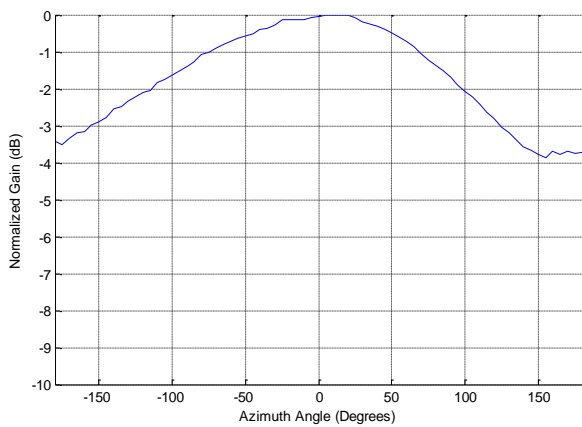
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VSWR AND GAIN, BAND D (800 – 6000 MHz):

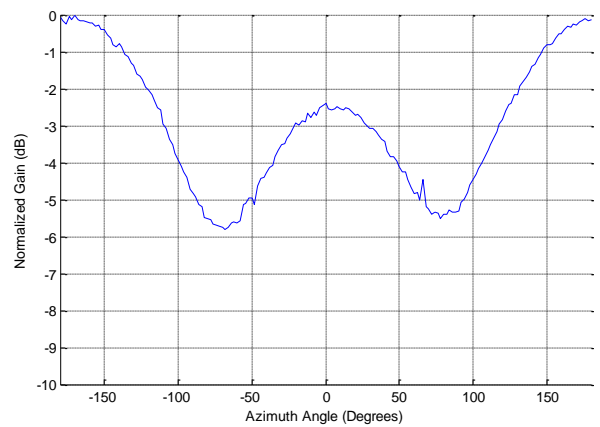


AZIMUTH PATTERNS:

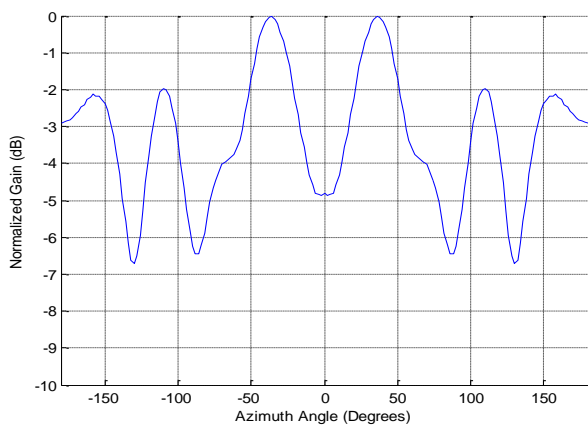
50 MHz (Band A):



100 MHz (Band B):



500 MHz (Band C):



3 GHz (Band D):

